

EMA6 / UMA6N

1) Two DTA114T chips in a EMT or UMT package.

EMA6 / UMA6N

Diagram showing the wiring for EMA6 / UMA6N. The circuit includes two relays (R1) and a central terminal (2). The relays are connected to terminals (3), (1), (4), and (5)/(6).

Type	EMA6	UMA6N
Package	EMT5	UMT5
Marking	A6	A6
Code	T2R	TR
Basic ordering unit (pieces)	8000	3000

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V_{CEO}	-50	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-100	mA
Collector power dissipation	P_C	150(TOTAL)	mW *1
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-55~+150	°C

*1 120mW per element must not be exceeded.

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CBO}	-50	-	-	V	$I_C = -50\mu A$
Collector-emitter breakdown voltage	BV_{CEO}	-50	-	-	V	$I_C = -1mA$
Emitter-base breakdown voltage	BV_{EBO}	-5	-	-	V	$I_E = -50\mu A$
Collector cutoff current	I_{CBO}	-	-	-0.5	μA	$V_{CB} = -50V$
Emitter cutoff current	I_{EBO}	-	-	-0.5	μA	$V_{EB} = -4V$
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	-	-0.3	V	$I_C/I_E = -5mA/-0.5mA$
DC current transfer ratio	h_{FE}	100	250	600	-	$V_{CE}/I_C = -5V/-1mA$
Transition frequency	f_T	-	250	-	MHz	$V_{EB} = 10V, I_E = -5mA, f = 100MHz$ *
Input resistance	R_i	32.9	47	61.1	$k\Omega$	-

*Transition frequency of the device.

EMA6

Technical drawing of the EMA6 package. The top view shows a rectangular package with dimensions 1.6 (width) and 1.0 (depth). Lead pitch is 0.5, and lead width is 0.15. Pin numbers 1 through 6 are indicated. The side view shows a maximum height of 0.22 and a standoff height of 0.13.

ROHM : EMT5

Each lead has same dimensions

UMA6N

Technical drawing of the UMA6N package. The top view shows a rectangular package with dimensions 2.1 (width) and 2.0 (depth). Lead pitch is 1.25, and lead width is 0.65. Pin numbers 1 through 6 are indicated. The side view shows a maximum height of 0.15, a standoff height of 0.1 Min., and a base thickness of 0.7. A note '0x0.1' is present near the base.

ROHM : UMT5

EIAJ : SC-88A

Each lead has same dimensions